

# Storm Data and Unusual Weather Phenomena

April 2003

Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Crops	Character of Storm
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## NEW MEXICO Southeast

NMZ028>029-033

Eddy County Plains - Northern Lea County - Central Lea County

15	1130MST 1630MST			0	0	210K	0	High Wind (MG65)
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Widespread damage to trees, powerpoles and lines, and signs were reported in Artesia. At least one car was struck by a falling tree in the city.

Damage reports from the city of Tatum consisted of one carport which was destroyed, minor roof damage to several structures, and downed powerpoles and trees.

Some of the most significant damage from the high wind event was in the Hobbs area. Public reports of winds near hurricane force were received, but could not be confirmed. Damage sustained in the area supported higher winds than those observed at the airport. Damage included severe roof damage to five well constructed homes. Several trailer houses were destroyed. The roof of a water storage facility which services the city with drinking water was blown off. Numerous other reports of tree, powerline and pole, and traffic sign damage were received.

A very strong and dynamic storm system moved over the Southern Plains on the 15th. A deep surface trough and dryline swept across southeast New Mexico during the afternoon hours. Very strong winds were propagating through the base of the mid level trough. These winds, along with strong subsidence and tight pressure gradients behind the wave, resulted in very strong winds across the region. Widespread wind gusts in the 50 to 65 MPH range were common. The most significant damage in southeast New Mexico was in the area around Hobbs.

## TEXAS West

Scurry County  
20 NE Snyder

05	1430CST			0	0	0	0	Hail(1.75)
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The 5th was an active severe weather day across parts of Texas. An isolated supercell thunderstorm developed along a dryline in Scurry County during the mid afternoon. This storm produced golfball size hail near the Hudd community in far northeast Scurry County. The storm became tornadic as it continued northeast of the area over the next hour.

TXZ050-074-258

Andrews - Davis / Apache Mountains Area - Guadalupe Mountains Of Culberson County

15	1100CST 1810CST			0	0	35K	0	High Wind (MG86)
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Damage was sustained to trees, powerlines, traffic lights and signs. In one instance, a falling tree struck a vehicle. No injuries were reported.

An automated observing system at Mount Locke reported a peak wind gust of 73 MPH.

Automated observing systems at the Guadalupe Bowl and Guadalupe Pass reported peak gusts of 99 and 98 MPH respectively.

A very strong and dynamic storm system moved over the Southern Plains on the 15th. A deep surface trough and dryline swept east across the Permian Basin during the afternoon hours. Very strong winds were propagating through the base of the mid level trough, with 50+ knots indicated within 1 km above ground on the KMAF 88D VAD profiler.

These winds, along with strong subsidence behind the wave and a tight pressure gradient, resulted in strong winds across a large part of West Texas with widespread gusts in the 50 to 65 MPH range. Gusts were observed as high as 98 MPH in the Guadalupe Mountains. The most significant damage reported in West Texas was in Andrews County.

Gaines County  
4 N Cedar Lake  
Gaines County  
3 NW Seminole

18	2130CST			0	0	0	0	Hail(0.88)
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18	2314CST			0	0	0	0	Hail(0.88)
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Reported at the intersection of Highway 214 and County Road 206.

Gaines County  
5 S Seminole to  
3 S Seminole

18	2335CST 2337CST			0	0	0	0	Hail(1.00)
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Reported on Highway 385.

Severe thunderstorms developed over the northern parts of the Permian Basin during the late evening of the 18th. The most intense storms were over Gaines County, where hail to the size of quarters was reported.

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<u>TEXAS West</u>									
Howard County Coahoma	23	1124CST			0	0	0	0	Hail(0.75)
									Thunderstorms developed along a dryline which was rapidly propagating east across the Permian Basin around midday on the 23rd. Penny size hail was reported in Coahoma with one of the stronger storms. Severe weather became widespread as these storms moved east of the basin through the afternoon hours.
Brewster County 8.5 SE Alpine	27	1753CST 1755CST			0	0	0	0	Hail(0.88)
									Reported by the public on State Route 118.
Brewster County Marathon	27	1844CST			0	0	0	0	Hail(1.00)
Brewster County Marathon	27	1844CST			0	0	0	0	Thunderstorm Wind (EG52)
Brewster County Marathon	27	1845CST 1900CST			0	0	20K	0	Flash Flood
									Local authorities reported minor damage to a few houses from flash flooding.
Brewster County 4 E Marathon	27	1900CST			0	0	0	0	Hail(0.75)
									A member of the general public returning home around midnight CST reported penny hail covering the ground some five hours after the severe thunderstorm moved over the area.
									An isolated supercell thunderstorm developed during the late afternoon and moved east across northern Brewster County. A second severe storm developed just north of Marathon, and began propagating south. The two storms merged over the city of Marathon and resulted in large hail, damaging winds, and flash flooding.
Gaines County 25 E Seminole	28	1553CST			0	0	0	0	Hail(1.00)
									Reported on Highway 180.
Dawson County 6 WSW Lamesa	28	1612CST 1618CST			0	0	0	0	Hail(0.88)
									Reported at the intersection of Farm to Market Road 829 and Highway 180.
Dawson County 8 N Lamesa to 5 N Lamesa	28	1640CST 1642CST			0	0	0	0	Hail(1.00)
									Reported on Farm to Market Road 179 and Highway 137.
Andrews County 17 NE Andrews	28	1710CST			0	0	0	0	Hail(1.00)
									Quarter size hail covered the ground.
Dawson County 10 N Lamesa	28	1730CST 1815CST			0	0	0	0	Flash Flood
									The Texas Department of Transportation reported high water covering the intersection of Highways 1210 and. 178 in northern Dawson County.
Borden County 12 S Gail	28	1735CST			0	0	0	0	Thunderstorm Wind (EG52)
									Reported on Highway 669.
Martin County 11 NW Tarzan	28	1735CST			0	0	0	0	Hail(0.75)
									A spotter reported penny size hail on Highway 349 eight miles north of the intersection with Highway 176.
Martin County 11 W Tarzan	28	1746CST			0	0	0	0	Hail(1.75)
Martin County 11 W Tarzan	28	1746CST			0	0	0	0	Thunderstorm Wind (MG63)

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<b>TEXAS West</b>									
A storm chaser reported golfball size hail blown horizontally by severe thunderstorm winds. The chaser's portable anemometer recorded a peak gust of 72 MPH.									
Martin County 13 SW Tarzan	28	1808CST			0	0	0	0	Hail(0.88)
A spotter reported nickel size hail ten miles south of the intersection of Highways 349 and 176.									
Howard County Knott	28	1810CST			0	0	0	0	Hail(0.75)
Scurry County 3 E Snyder	28	1830CST 1850CST			0	0	0	0	Thunderstorm Wind (MG59)
Severe thunderstorm gusts measured by Texas Mesonet.									
Howard County Big Spring	28	1835CST			0	0	12K	0	Thunderstorm Wind (EG57)
Two trees were blown down by severe thunderstorm winds and caused damage to electrical transformers. In addition, a roof was blown off of a portable building at the school.									
Martin County 15 SW Tarzan	28	1845CST			0	0	0	0	Hail(1.75)
An off duty NWS meteorologist reported golfball hail stones sporadically falling on Highway 349 three miles north of the Martin/Midland County line. These hail stones were ejected some distance from the parent supercell thunderstorm, which was centered about twelve miles to the northeast.									
Mitchell County 3.5 S Westbrook	28	1856CST			0	0	0	0	Thunderstorm Wind (EG52)
The 28th was an active severe weather day which resulted in numerous reports of large hail and damaging winds across the Permian Basin. The activity initiated in the late afternoon near a triple point located over the northwest Permian Basin. Numerous small but intense cells develop over Dawson and eastern Gaines Counties. These storm resulted in hail up to one inch in diameter. An isolated supercell evolved over northeast Andrews County and tracked southeast (turning right of the mean steering flow) across Martin County. This storm produced up to golfball size hail and wind gusts in excess of 70 MPH. Meanwhile, more linear convection began to bow over northern Howard County and resulted in damaging winds in the Big Spring vicinity. Damaging thunderstorm winds also occurred over the northeast Permian Basin and the western Low Rolling Plains.									
Terrell County 6.5 N Dryden	29	1614CST 1644CST			0	0	0	0	Hail(1.75)
An isolated supercell thunderstorm developed over central Terrell County and propagated south toward Dryden. The Terrell County S.O. relayed a report from a rancher north of Dryden of large hail. The rancher reported the ground covered with golfball size hail which fell for thirty minutes.									